

AVT 100N

NTSC Analog Closed Circuit TV Tuner

UNIQUE FEATURES

- NTSC compatible

AVT 100P

PAL Analog Closed Circuit TV Tuner

UNIQUE FEATURES

- PAL compatible



COMMON FEATURES

- High performance analog TV tuner for CCTV systems
- Input: One antenna/cable TV input connector
- Output: Composite video output on a BNC connector
- Balanced or unbalanced stereo audio output on captive screw connectors
- Front panel, RS-232, and modulated IR control
- Save and recall configuration files via RS-232
- Preset channel memories
- RS-232 serial control with Extron SIS™ - Simple Instruction Set
- Optional AVT 100 IR remote control, part # 70-366-01
- Back panel IR input for modulated IR
- Rack-mountable 1U, quarter rack width metal enclosure
- External universal power supply included, part # 70-055-01

DESCRIPTION

The Extron **AVT 100** is a compact, high performance analog cable and television demodulator designed to provide maximum performance and control in professional A/V environments. Primary applications include boardrooms, conference rooms, and classrooms. The AVT 100 can also be employed in large-area RF distribution systems in stadiums, arenas, and campus CCTV systems.

Channels may be selected directly from the front panel, which includes a three-digit alphanumeric display. Expanded control is available via RS-232 with Extron SIS™ - Simple Instruction Set, as well as extended range IR operation with the optional IR remote.

The AVT 100 can be set for full or selective channel access. Configuration settings for channel presets can be exported to a file and then uploaded to other units, saving installation time.

The AVT 100 is available in both NTSC and PAL versions, and is housed in a 1U, quarter rack width metal enclosure.

MODEL	VERSION DESCRIPTION	PART #	
AVT 100N	NTSC.....	60-647-01	
AVT 100P	PAL.....	60-647-02	
OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
AVT Remote	Handheld IR Remote Control for AVT 100.....	page 615	70-366-01
IR Link	Wall-Mountable IR Signal Repeater - Black.....	page 281	60-404-02
RSU 129	1U 9.5" Deep Universal Rack Shelf Kit.....	page 819	60-190-01
PMK 100	1/4 Rack Width Mini Projector Mount Kit.....	page 813	70-217-01

Continued →

AVT 100 Series

SPECIFICATIONS

RF VIDEO INPUT

Number / signal type	1 radio frequency (RF)
Connectors	
NTSC model	1 female F connector
PAL model	1 female IEC 169-2, 75 ohm connector
Impedance	75 ohms
Sensitivity	-20 to +20 dBmV
Frequency range	48 MHz to 855 MHz
NTSC off air TV channels	
NTSC	2 to 69
Japan	1-62
NTSC CATV cable channels	
NTSC	2 to 125
Japan	1-63
PAL off air TV and cable	
Channels	48 - 855
Vertical frequency	
NTSC model	60 Hz
PAL model	50 Hz

VIDEO OUTPUT

Number / signal type	1 composite video
Connectors	1 BNC female
Nominal level	1 Vp-p for composite video
Minimum / maximum levels	0.4 V to 1.0 Vp-p (follows input)
Impedance	75 ohms
DC offset	±10 mV with input at 0 offset

SYNC

Standards	
NTSC model	NTSC 3.58
International model	PAL

AUDIO

THD + Noise	NTSC: 0.4% @ 1 kHz
	PAL: 0.6% @ 1 kHz
S/N	NTSC: -55 dB @ 1 kHz
	PAL: -58 dB @ 1 kHz
Stereo channel separation	>35 dB @ 1 kHz

RF AUDIO INPUT

Number / signal type	1 (as part of the RF signal)
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NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV = 2 dBu

AUDIO OUTPUT

Number / signal type	1 balanced/unbalanced: stereo for NTSC, PAL B/G, PAL D/K mono only for PAL I
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	± 0.5 dB channel to channel
Nominal level	0 dBu
Output level	1 Vrms (max.)

CONTROL / REMOTE — TUNER

Serial control port	RS-232; 3.5 mm captive screw connector, 5 pole
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Serial / IR control pin configurations	1 = TX, 2 = RX, 3 = GND, 4 = modulated IR, 5 = +12 VDC
IR controller module	AVT Remote (optional) 30° maximum, 40 degrees off axis
Program control	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™)

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, external, universal; to 12 VDC, 1 A (max.), regulated
Power input requirements	12 VDC, 0.5 A
Temperature / humidity	Storage: -40 to +158°F (-40 to +70°C) / 10% to 90%, noncondensing Operating: +32 to +122°F (0 to +50°C) / 10% to 90%, noncondensing
Rack mount	Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, #60-190-01; RSB 129, #60-604-01)
Enclosure type	Metal
Enclosure dimensions	1.7" H x 4.3" W x 6.7" D (1U high, quarter rack wide) 4.3 cm H x 10.9 cm W x 17.0 cm D (Depth excludes connectors.)
Product weight	0.8 lbs (0.4 kg)
Shipping weight	3 lbs (2 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%. Specifications are subject to change without notice.

